

IN THE CLAIMS:

Please amend Claims 1 to 4, 9 and 10 as shown below. Please cancel Claims 5 to 8 and 11 to 17 and add new Claims 18 to 20. The claims, as currently pending in the application, read as follows:

1. (Currently Amended) An ~~iron-core~~ electro-magnetic actuator using an electromagnet, comprising:

a movable member;

a stator; and

an iron core constituting at least a part of said movable member or said stator, wherein

said iron core comprises:

a ~~stacked structure of~~ a plurality of electromagnetic steel plates ~~fixed to each other via~~ having a first region in which an insulating ~~members;~~ film is formed and a second region from which said insulating film is removed by machining; and

a surface, of said plurality of steel plates, located on an opposing side of said movable member and said stator; and

a coating member ~~coating said surface~~ which coats at least the second region.

2. (Currently Amended) The ~~iron-core~~ electro-magnetic actuator according to claim 1, wherein ~~at least one end face of said stacked structure is fixed to a~~

~~mounting base, and said coating member further coats other surfaces of said plurality of steel plates mounting base.~~

3. (Currently Amended) The ~~iron-core~~ electro-magnetic actuator according to claim 1, ~~wherein further comprising a mounting base fixing said plurality of electromagnetic steel plates, wherein are connected by an adhesive member, and said coating member further coats said mounting base and other surfaces of said plurality of steel plates adhesive member.~~

4. (Currently Amended) The electro-magnetic actuator ~~iron-core~~ according to claim 1, wherein said coating member contains at least one of polyimide, polyparaxylene, nickel, and amorphous silicon.

5 to 8. (Cancelled).

9. (Currently Amended) The ~~iron-core~~ electro-magnetic actuator according to claim 1, further comprising a coil wound around said iron core stacked structure and coating member.

10. (Currently Amended) An alignment apparatus for positioning an object, adapted to drive a member mounting said object thereon using said electro-magnetic actuator according to claim 1 comprising a stator and a movable element

~~opposing said stator, wherein a coil cited in claim 9 is wound around at least one of said stator and movable element.~~

11 to 17. (Cancelled).

18. (New) The electro-magnetic actuator according to claim 1, wherein said surface has undergone machining by at least one of cutting, grinding, and lapping.

19. (New) The electro-magnetic actuator according to claim 1, further comprising an adhesive connecting said plurality of steel plates, wherein said coating member further coats other surfaces of the connected plurality of steel plates.

20. (New) The electro-magnetic actuator according to claim 1, wherein said actuator is an electromagnet guide adapted to guide a moving member.